

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/033,129C
Source: 1FW16
Date Processed by STIC: 8/15/05

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**CRF Errors Edited by the STIC Systems
Branch**

Serial Number:

10/033,129C

CRF Edit Date:

8/16/05

Edited by:

[Signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

Other:

Sequence 17 - corrected amino acid numbering

Revised 09/09/2003



IFW16

RAW SEQUENCE LISTING DATE: 08/16/2005
 PATENT APPLICATION: US/10/033,129C TIME: 11:31:09

Input Set : A:\PTO.AMC.txt
 Output Set: N:\CRF4\08162005\J033129C.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:
 5 (i) APPLICANT: CHOO, Yen
 6 KLUG, Aaron
 7 SANCHEZ GARCIA, Isidro
 9 (ii) TITLE OF INVENTION: Improvements in or Relating to
 10 Binding Proteins for Recognition of DNA
 12 (iii) NUMBER OF SEQUENCES: 125
 14 (iv) CORRESPONDENCE ADDRESS:
 15 (A) ADDRESSEE: Pillsbury Madison & Sutro, L.L.P.
 16 (B) STREET: 1100 New York Avenue, N.W.
 17 (C) CITY: Washington
 18 (D) STATE: D.C.
 19 (E) COUNTRY: USA
 20 (F) ZIP: 20005-3918
 22 (v) COMPUTER READABLE FORM:
 23 (A) MEDIUM TYPE: Diskette
 24 (B) COMPUTER: IBM PC compatible
 25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 26 (D) SOFTWARE: Word Perfect
 28 (vi) CURRENT APPLICATION DATA:
 C--> 29 (A) APPLICATION NUMBER: US/10/033,129C
 C--> 30 (B) FILING DATE: 27-Dec-2001
 31 (C) CLASSIFICATION:
 48 (vii) PRIOR APPLICATION DATA:
 W--> 34 (A) APPLICATION NUMBER: US 08/793,408
 35 (B) FILING DATE: 02-JUN-1997
 W--> 37 (A) APPLICATION NUMBER: PCT/GB95/01949
 38 (B) FILING DATE: 17-AUG-1995
 W--> 41 (A) APPLICATION NUMBER: GB 9514698.1
 42 (B) FILING DATE: 18-JUL-1995
 W--> 45 (A) APPLICATION NUMBER: GB 9422534.9
 46 (B) FILING DATE: 08-NOV-1994
 W--> 49 (A) APPLICATION NUMBER: GB 9416880.4
 50 (B) FILING DATE: 20-AUG-1994
 52 (2) INFORMATION FOR SEQ ID NO: 1:
 54 (i) SEQUENCE CHARACTERISTICS:
 55 (A) LENGTH: 60 base pairs
 56 (B) TYPE: nucleic acid
 57 (C) STRANDEDNESS: single
 58 (D) TOPOLOGY: linear
 60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 65 CTCCTGCAGT TGGACCTGTG CCATGGCCGG CTGGGCCGCA TAGAATGGAA 50

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```

66 CAACTAAAGC
68 (2) INFORMATION FOR SEQ ID NO: 2:
70 (i) SEQUENCE CHARACTERISTICS:
C--> 71 (A) LENGTH: 92 amino acids
72 (B) TYPE: amino acid
73 (C) STRANDEDNESS:
74 (D) TOPOLOGY: unknown
76 (ii) MOLECULE TYPE: protein
78 (ix) FEATURE:
79 (A) NAME/KEY: variable amino acid residue
80 (B) LOCATION: 57
81 (C) IDENTIFICATION METHOD: by experiment
82 (D) OTHER INFORMATION: Arg or Lys
84 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
86 Met Ala Glu Glu Arg Pro Tyr Ala Cys Pro
87 5 10
88 Val Glu Ser Cys Asp Arg Arg Phe Ser Arg
89 15 20
90 Ser Asp Glu Leu Thr Arg His Ile Arg Ile
91 25 30
92 His Thr Gly Gln Lys Pro Phe Gln Cys Arg
93 35 40
W--> 94 Ile Cys Met Arg Asn Phe Ser Xaa Xaa Xaa
95 45 50
96 Xaa Leu Xaa Xaa His Xaa Xaa Thr His Thr
97 55 60
98 Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys
99 65 70
100 Gly Arg Lys Phe Ala Arg Ser Asp Glu Arg
101 75 80
102 Lys Arg His Thr Lys Ile His Leu Arg Gln
103 85 90
104 Lys Asp
106 (2) INFORMATION FOR SEQ ID NO: 3:
108 (i) SEQUENCE CHARACTERISTICS:
109 (A) LENGTH: 26 base pairs
110 (B) TYPE: nucleic acid
111 (C) STRANDEDNESS: single
112 (D) TOPOLOGY: linear
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
116 TATGACTTGG ATGGGAGACC GCCTGG
118 (2) INFORMATION FOR SEQ ID NO: 4:
120 (i) SEQUENCE CHARACTERISTICS:
121 (A) LENGTH: 28 base pairs
122 (B) TYPE: nucleic acid
123 (C) STRANDEDNESS: single
124 (D) TOPOLOGY: linear
126 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
128 AATTCCAGGC GGTCTCCCAT CCAAGTCA

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130 (2) INFORMATION FOR SEQ ID NO: 5:
132     (i) SEQUENCE CHARACTERISTICS:
133         (A) LENGTH: 21 base pairs
134         (B) TYPE: nucleic acid
135         (C) STRANDEDNESS: single
136         (D) TOPOLOGY: linear
138     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
140 TATATAGCGT GGGCGTATAT A                               21
142 (2) INFORMATION FOR SEQ ID NO: 6:
144     (i) SEQUENCE CHARACTERISTICS:
145         (A) LENGTH: 24 base pairs
146         (B) TYPE: nucleic acid
147         (C) STRANDEDNESS: single
148         (D) TOPOLOGY: linear
150     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
152 GCGTATATAC GCCCAGCTA TATA                               24
154 (2) INFORMATION FOR SEQ ID NO: 7:
156     (i) SEQUENCE CHARACTERISTICS:
157         (A) LENGTH: 21 base pairs
158         (B) TYPE: nucleic acid
159         (C) STRANDEDNESS: single
160         (D) TOPOLOGY: linear
162     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
164 TATATAGCGN NNGCGTATAT A                               21
166 (2) INFORMATION FOR SEQ ID NO: 8:
168     (i) SEQUENCE CHARACTERISTICS:
169         (A) LENGTH: 24 base pairs
170         (B) TYPE: nucleic acid
171         (C) STRANDEDNESS: single
172         (D) TOPOLOGY: linear
174     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
176 GCGTATATAC GCNNCGCTA TATA                               24
179 (2) INFORMATION FOR SEQ ID NO: 9:
181     (i) SEQUENCE CHARACTERISTICS:
182         (A) LENGTH: 33 base pairs
183         (B) TYPE: nucleic acid
184         (C) STRANDEDNESS: single
185         (D) TOPOLOGY: linear
187     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
189 TTCCATGGAG ACGCAGAAGC CCTTCAGCGG CCA                   33
191 (2) INFORMATION FOR SEQ ID NO: 10:
193     (i) SEQUENCE CHARACTERISTICS:
194         (A) LENGTH: 33 base pairs
195         (B) TYPE: nucleic acid
196         (C) STRANDEDNESS: single
197         (D) TOPOLOGY: linear
199     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
201 TTCCATGGAG ACGCAGGTGA GTTCCTCAG CCA                   33
203 (2) INFORMATION FOR SEQ ID NO: 11:

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RAW SEQUENCE LISTING

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Input Set : A:\PTO.AMC.txt

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205 (i) SEQUENCE CHARACTERISTICS:
 206 (A) LENGTH: 33 base pairs
 207 (B) TYPE: nucleic acid
 208 (C) STRANDEDNESS: single
 209 (D) TOPOLOGY: linear

211 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
 213 CCCCTTTCTC TTCCAGAAGC CCTTCAGCGG CCA

33

215 (2) INFORMATION FOR SEQ ID NO: 12:

217 (i) SEQUENCE CHARACTERISTICS:
 218 (A) LENGTH: 33 amino acids
 219 (B) TYPE: amino acid
 220 (C) STRANDEDNESS:
 221 (D) TOPOLOGY: unknown

223 (ii) MOLECULE TYPE: peptide

225 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

227 Met Ala Glu Glu Lys Pro Phe Gln Cys Arg
 228 5 10
 230 Ile Cys Met Arg Asn Phe Ser Asp Arg Ser
 231 15 20
 233 Ser Leu Thr Arg His Thr Arg His Thr Gly
 234 25 30

236 Glu Lys Pro

239 (2) INFORMATION FOR SEQ ID NO: 13:

241 (i) SEQUENCE CHARACTERISTICS:
 242 (A) LENGTH: 33 amino acids
 243 (B) TYPE: amino acid
 244 (C) STRANDEDNESS:
 245 (D) TOPOLOGY: unknown

247 (ii) MOLECULE TYPE: peptide

249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

251 Met Ala Glu Glu Lys Pro Phe Gln Cys Arg
 252 5 10
 254 Ile Cys Met Arg Asn Phe Ser Glu Arg Gly
 255 15 20
 257 Thr Leu Ala Arg His Glu Lys His Thr Gly
 258 25 30

260 Glu Lys Pro

262 (2) INFORMATION FOR SEQ ID NO: 14:

264 (i) SEQUENCE CHARACTERISTICS:
 265 (A) LENGTH: 27 amino acids
 266 (B) TYPE: amino acid
 267 (C) STRANDEDNESS:
 268 (D) TOPOLOGY: linear

270 (ii) MOLECULE TYPE: peptide

272 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

274 Phe Gln Cys Arg Ile Cys Met Arg Asn Phe
 275 5 10
 277 Ser Gln Gly Gly Asn Leu Val Arg His Leu
 278 15 20

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280 Arg His Thr Gly Glu Lys Pro
281                25
283 (2) INFORMATION FOR SEQ ID NO: 15:
285     (i) SEQUENCE CHARACTERISTICS:
286         (A) LENGTH: 26 amino acids
287         (B) TYPE: amino acid
288         (C) STRANDEDNESS:
289         (D) TOPOLOGY: unknown
291     (ii) MOLECULE TYPE: peptide
293     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
295 Phe Gln Cys Arg Ile Cys Met Arg Asn Phe
296                5                10
299 Ser Gln Ala Gln Thr Leu Gln Arg His Leu
300                15                20
302 Lys His Thr Gly Glu Lys
303                25
305 (2) INFORMATION FOR SEQ ID NO: 16:
307     (i) SEQUENCE CHARACTERISTICS:
308         (A) LENGTH: 26 amino acids
309         (B) TYPE: amino acid
310         (C) STRANDEDNESS:
311         (D) TOPOLOGY: unknown
313     (ii) MOLECULE TYPE: peptide
315     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
317 Phe Gln Cys Arg Ile Cys Met Arg Asn Phe
318                5                10
320 Ser Gln Ala Ala Thr Leu Gln Arg His Leu
321                15                20
323 Lys His Thr Gly Glu Lys
324                25
326 (2) INFORMATION FOR SEQ ID NO: 17:
328     (i) SEQUENCE CHARACTERISTICS:
329         (A) LENGTH: 26 amino acids
330         (B) TYPE: amino acid
331         (C) STRANDEDNESS:
332         (D) TOPOLOGY: unknown
334     (ii) MOLECULE TYPE: peptide
336     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
338 Phe Gln Cys Arg Ile Cys Met Arg Asn Phe
339                5                10
341 Ser Gln Ala Gln Asp Leu Gln Arg His Leu
342                15                20
344 Lys His Thr Gly Glu Lys
345                25
347 (2) INFORMATION FOR SEQ ID NO: 18:
349     (i) SEQUENCE CHARACTERISTICS:
350         (A) LENGTH: 89 amino acids
351         (B) TYPE: amino acid
352         (C) STRANDEDNESS:

```

**Raw Sequence Listing before editing,
for reference only**



IFW16

RAW SEQUENCE LISTING

DATE: 08/15/2005

PATENT APPLICATION: US/10/033,129C

TIME: 08:35:39

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\08152005\J033129C.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: CHOO, Yen

6 KLUG, Aaron

7 SANCHEZ GARCIA, Isidro

9 (ii) TITLE OF INVENTION: Improvements in or Relating to
10 Binding Proteins for Recognition of DNA

12 (iii) NUMBER OF SEQUENCES: 125

14 (iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: Pillsbury Madison & Sutro, L.L.P.

16 (B) STREET: 1100 New York Avenue, N.W.

17 (C) CITY: Washington

18 (D) STATE: D.C.

19 (E) COUNTRY: USA

20 (F) ZIP: 20005-3918

22 (v) COMPUTER READABLE FORM:

23 (A) MEDIUM TYPE: Diskette

24 (B) COMPUTER: IBM PC compatible

25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

26 (D) SOFTWARE: Word Perfect

28 (vi) CURRENT APPLICATION DATA:

C--> 29 (A) APPLICATION NUMBER: US/10/033,129C

C--> 30 (B) FILING DATE: 27-Dec-2001

31 (C) CLASSIFICATION:

45 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: PCT/GB95/01949

35 (B) FILING DATE: 17-AUG-1995

38 (A) APPLICATION NUMBER: GB 9514698.1

39 (B) FILING DATE: 18-JUL-1995

42 (A) APPLICATION NUMBER: GB 9422534.9

43 (B) FILING DATE: 08-NOV-1994

46 (A) APPLICATION NUMBER: GB 9416880.4

47 (B) FILING DATE: 20-AUG-1994

Does Not Comply
Corrected Diskette Needed

Does Not Comply
Corrected Diskette Needed

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

323 (2) INFORMATION FOR SEQ ID NO: 17:

325 (i) SEQUENCE CHARACTERISTICS:

326 (A) LENGTH: 26 amino acids

327 (B) TYPE: amino acid

328 (C) STRANDEDNESS:

329 (D) TOPOLOGY: unknown

P.2

RAW SEQUENCE LISTING

DATE: 08/15/2005

PATENT APPLICATION: US/10/033,129C

TIME: 08:35:39

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\08152005\J033129C.raw

331 (ii) MOLECULE TYPE: peptide
333 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
335 Phe Gln Cys Arg Ile Cys Met Arg Asn Phe
336 5 10
338 Ser Gln Ala Gln Asp Leu Gln Arg His Leu
339 15 20
341 Lys His Thr Gly Glu Lys
E--> 342 25 25

VERIFICATION SUMMARY

DATE: 08/15/2005

PATENT APPLICATION: US/10/033,129C

TIME: 08:35:41

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\08152005\J033129C.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:68 M:220 C: Keyword misspelled or invalid format, [(A) LENGTH:]
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:40
M:341 Repeated in SeqNo=2
L:342 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:17

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